PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference YL05010PCT	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/KR2005/002400	International filing date (day/month/year) 25 July 2005 (25.07.2005)	Priority date (day/month/year) 26 July 2004 (26.07.2004)		
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant MYONGJI UNIVERSITY INDUSTRY AND ACADEMIA COOPERATION				

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1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).			
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.			
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.			
3.	3. This report contains indications relating to the following items:			
	Box No. I	Basis of the report		
	Box No. II	Priority		
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
	Box No. IV	Lack of unity of invention		
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
	Box No. VI	Certain documents cited		
	Box No. VII	Certain defects in the international application		
	Box No. VIII	Certain observations on the international application		
4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).				
			Date of issuance of this report 30 January 2007 (30.01.2007)	
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland		ombettes	Authorized officer Philippe Becamel	
·		,	e-mail: pt12@wipo.int	

Facsimile No. +41 22 338 82 70 Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the

NTERNATIONAL	SEARCHING	AUTHORITY
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To: LEE, Duck-Rog		PCT	
YEiL Patent and Trademark Int'lYEiLPAT Bldg. #669-17, Yorksam-dongKangnam-ku Seoul 135-915 Republic of Korea		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY	
		(PCT Rule 43bis.1)	
		Date of mailing (day/month/year) 29 NOVEMBER 2005 (29.11.2005)	
Applicant's or agent's file reference YL05010PCT		FOR FURTHER ACTION See paragraph 2 below	
International application No. PCT/KR2005/002400	International filing date 25 JULY 2005 (25.		Priority date(day/month/year) 26 JULY 2004 (26.07.2004)
International Patent Classification (IPC) of IPC7 C12Q 1/68	or both national classifica	tion and IPC	
Applicant			
MYONGJI UNIVERSITY IND	USTRY AND ACA	DEMIA COOPE	RATION et al
This opinion contains indications relating to the following items: Box No. I Basis of the opinion			
Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
Box No. IV Lack of unity of invention			
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
=	s in the international appl		
Box No. VIII Certain observations on the international application			
2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.			
For further options, see Form PCT/ISA/220.			
3. For further details, see notes to Form PCT/ISA/220.			
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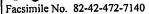
Date of completion of this opinion

Name and mailing address of the ISA/KR Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

29 NOVEMBER 2005 (29.11.2005) SHIN, Kyeong A

Authorized officer

Telephone No.82-42-481-5589



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2005/002400

Bo	x No. 1 Basis of this opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under
	Rules 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing table(s) related to the sequence listing
	table(s) related to the sequence fishing
	b. format of material
	on paper
	in electronic form
	c. time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in electronic form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been
	filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that
	in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2005/002400

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:				
the entire international application				
claims Nos. 1				
because: the said international application, or the said claims Nos. relate to the following subject matter which does not require an international search (specify):				
Claim 1 of the present invention relates to a mere presentation of information. Thus this International Search Authority is not required, under Article 17(2)(a)(i) of the PCT and Rule 39.1(v) of the Regulations under the PCT, to search.				
the description, claims or drawings (indicate particular elements below) or said claims Nosare so unclear that no meaningful opinion could be formed (specify):				
the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed (specify):				
no international search report has been established for said claims Nos				
a meaningful opinion could not be formed without the sequence listing, the applicant did not, within the prescribed time limit:				
furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Istructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.				
furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Istructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.				
pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rule 13ter.1(a) or (b).				
a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.				
the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.				
See Supplemental Box for further details.				

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/KR2005/002400

NO

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1. Statement			
Novelty (N)	Claims		YES
	Claims	2	NO
Inventive step (IS)	Claims		YES
	Claims	,	NO
Industrial applicability (IA)	Claims	2	VES

2. Citations and explanations:

The following document has been considered for the purpose of this written opinion:

D1: Acta Crystallographica, D60, pp.382-384 (02 Feb. 2004)

Claims

D1 relates to crystallization and preliminary X-ray crystallographic analyses of CMY-1 and CMY-10, plasmidic class c beta-lactamases with extended substrate spectrum, showing the possibility of designing new antibiotics using the information about the CMY-10 structure.

Claim 2 of the present invention relates to use of CMY-10 protein structure according to claim 1 for developing novel antibiotics or inhibitors capable of preventing an emergence of resistance bacteria appeared by plasmidic class C beta-lactamases having extended-substrate specificity.

Accordingly the subject matter of claim 2 is not considered novel over D1.